**MEMORANDUM** 

Superfund Records Center SITE: Wells BREAK: 549614 OTHER:\_

SDMS DocID

TO:

J. Lawson

MEMO NO.: 102-APP-294

at Pandin

FROM:

A. Paradice

FILE:

0005-407

SUBJECT: Unifirst, Woburn

DATE:

9/30/87

The results for the analysis of various Water samples received from the Unifirst, Woburn site, on 9/1/87 are attached. The cost for these analyses is \$1,080.

APP/eps

cc:

memo only

P. Pelletier

M. Sparlin

Report Gen.

+ disposition letter

M. Lynn

+ report

Chemistry File

#### DATA AND REPORT APPROVAL FORM

SUBMITTED BY:

Analytical Chemistry Laboratory ERT A Resource Engineering Company 33 Industrial Way Wilmington, MA 01887 September 30, 1987

DATA SUBMITTED BY:

Thomas M. Trainor, Ph.D.

Program Manager

DATA AUDITED BY:

Marti Sparlin

Quality Control Coordinator

ERT
33 Industrial Way
Wilmington, MA 01887
(617) 657-4290

From:

LABORATORY MANAGER

Date of

Issuance:

September 30, 1987

Subject:

SAMPLE RETENTION TERMS

Client:

Unifirst, Woburn

Date Sample

Received:

9/1/87

Number of Samples

Received/Matrix: 4 Water

It is the policy of ERT to dispose of unanalyzed portions of samples thirty (30) days following submittal of the pertinent final analytical results report. This letter serves as notification that the above samples will be due for disposal. Sample extracts for organic analyses will be archived for one (1) year. Separate notification will be sent to you prior to disposal of sample extracts.

- A. ERT will return to you all unused samples at your expense (Federal Express), or
- B. ERT will maintain custody of the samples at a cost of fifteen dollars (\$15.00) per sample per quarter for refrigerated storage, and three dollars (\$3.00) per sample per quarter for ambient storage. You will be billed in advance each quarter based upon the number of samples in storage at the beginning of the quarter. The minimum storage fee per project will be fifty dollars (\$50.00) per quarter to cover administrative costs.

YOU MUST RETURN THIS LETTER TO THE LABORATORY MANAGER WITH PROPER AUTHORIZATION (i.e., Purchase Order Number, Federal Express Number, etc), SAMPLE OPTION, SIGNATURE AND DATE WITHIN THIRTY (30) DAYS OF ISSUANCE OR THE SAMPLES INDICATED ABOVE WILL BE DISPOSED.

OPTION:	•
AUTHORIZATION NO.:	(Federal Express
·	(Purchase Order)
SIGNATURE:	
DATE:	·

# VOLATILE ORGANIC COMPOUND ANALYSIS IN WATER

Summary of Analytical Results

Method Blank Results

Quality Control Check Sample Results

### EPA Method 624/HSL L1st

Client Name: ERT

Client ID: 47202 VC-12

Laboratory ID: 5190-01

Matrix: <u>Water</u> Sampled: <u>09/01/87</u> Received: <u>09/01/87</u>

Authorized: 09/01/87 Prepared: 09/14/87 Analyzed: 09/14/87

Parameter	<u>Result</u>	<u>Units</u>	Reporting Limit
Chloromethane	ND	μg/L	. 5
Bromomethane	ND	μg/L	5
Vinyl chloride	ND	μg/L	5
Chloroethane	- ND	μg/L	5
Methylene chloride	ND ND	μg/L	5
Acetone	ND	μg/L	50
Carbon disulfide	ND	μg/L	
1,1-Dichloroethene	ND	μg/L	2 2 2 2 2 2
1,1-Dichloroethane	ND	μg/L	2
trans-1,2-Dichloroethene	ND	μg/L	2
Chioroform	21	μg/L	2
1,2-Dichloroethane	ND	μg/L	2
2-Butanone	ND	μg/L	10
1,1,1-Trichloroethane	ND	μg/L	2
Carbon tetrachloride	ND	μg/L	2 2
Vinyl acetate	ND	μg/L	10
Bromodichloromethane	3.6	μg/L	10 2 2 2 2 2 2 2 2
1,2-Dichloropropane	. ND	μg/L	2
trans-1,3-Dichloropropene	ND	μg/L	ž
Trichloroethene	ND	μg/L	2
Dibromochloromethane	ND	μg/L	2
1,1,2-Trichloroethane	ND	ug/L	2
Benzene	ND	μg/L	2
cis-1,3-Dichloropropene	ND	μg/L	2
2-Chloroethyl vinyl ether	ND	μg/L	10
Bromoform	ND	μg/L	2
4-Methyl-2-pentanone	ND.	μg/L	10
2-Hexanone	ND	μg/L	10
1,1,2,2-Tetrachloroethane	ND	μg/L	2
Tetrachloroethene	ND	μg/L	2
Toluene	ND	μg/L	2
Chlorobenzene	ND .	μg/L	2
Ethyl benzene	ND	μg/L	2 2 2 2 2 2 2
Styrene	ND	μg/L	2
Total xylenes	ND	μg/L	2
		La, -	

ND = Not detected.

Reported by Appr

(D)

Vy

#### EPA Method 624/HSL List

Client Name: <u>ERT</u>

Client ID: <u>47203</u> FB

Laboratory ID: 5190-02

Matrix: <u>Water</u> Sampled: <u>09/01/87</u> Received: <u>09/01/87</u>

Authorized: 09/01/87 Prepared: 09/14/87 Analyzed: 09/14/87

<u>Parameter</u>	Result	<u>Units</u>	Reporting <u>Limit</u>
Chloromethane	ND	ug/L	5
Bromomethane	ND	μg/L	5
Vinyl chloride	. ND	μg/L	5
Chloroethane	ND	μg/L	5
Methylene chloride	ND	μg/L	5
Acetone	ND	μg/L	50
Carbon disulfide	ND	μg/L	2
1,1-Dichloroethene	ND	μg/L	2
1,1-Dichloroethane	ND	μg/L	2
trans-1,2-Dichloroethene	ND	μg/L	2 2
Chloroform	ND	μg/L	2
1,2-Dichloroethane	ND	μg/L	2
2-Butanone	ND	μg/L	10
1,1,1-Trichloroethane	ND	μg/L	2
Carbon tetrachloride	ND -	μg/L	2
Vinyl acetate	ND	μg/L	10
Bromodich1oromethane	ND	ug/L	
1,2-Dichloropropane	ND	μg/L	2 2 2
trans-1,3-Dichloropropene	ND	μg/L	2
Trichloroethene	ND	μg/L	
Dibromochloromethane	ND	ug/L	2 2
1,1,2-Trichloroethane	ND	μg/L	. Ž
Benzene	ND	μg/L	Ž
cis-1,3-Dichloropropene	ND	μg/L	2
2-Chloroethyl vinyl ether	ND	μg/L	10
Bromoform	ND	μg/L	2
4-Methy1-2-pentanone	ND	μg/L	10
2-Hexanone	ND	μg/L	10
1,1,2,2-Tetrachloroethane	ND	μg/L	2
Tetrachloroethene	ND	μg/L	2
Toluene	ND	μg/L	2
Chlorobenzene	ND	μg/L	2
Ethyl benzene	ND	μg/L	2 2 2
Styrene	ND	μg/L	2
Total xylenes	ND	μg/L	2

ND = Not detected.

Reported by

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#### EPA Method 624/HSL List

Client Name: <u>ERT</u>

Client ID: <u>47204</u>

Laboratory ID: 5190-03

ND = Not detected.

Reported by \_

Matrix: Water Authorized: 09/01/87

SB

Sampled: <u>09/01/87</u> Prepared: <u>09/14/87</u>

Analyzed: <u>09/14/87</u>

Received: <u>09/01/87</u>

Chloromethane ND µg/L 5 Bromomethane ND µg/L 5 Bromomethane ND µg/L 5 Chloroethane ND µg/L 5 Chloroethane ND µg/L 5 Methylene chloride ND µg/L 5 Methylene chloride ND µg/L 5 Methylene chloride ND µg/L 5 Carbon disulfide ND µg/L 2 1,1-Dichloroethane ND µg/L 2 1,1-Dichloroethane ND µg/L 2 1,1-Dichloroethane ND µg/L 2 Crans-1,2-Dichloroethane ND µg/L 2 Chloroform ND µg/L 2 Chloroform ND µg/L 2 2-Butanone ND µg/L 2 2-Butanone ND µg/L 10 1,1,1-Trichloroethane ND µg/L 2 2-Butanone ND µg/L 2 2-Butanone ND µg/L 10 1,1,1-Trichloroethane ND µg/L 2 2-Butanone ND µg/L 2 2-Trichloropropane ND µg/L 2 1,2-Dichloropropane ND µg/L 2 1,2-Dichloropropane ND µg/L 2 1,2-Dichloromethane ND µg/L 2 1,2-Dichloropropane ND µg/L 2 2-Trichloroethene ND µg/L 2 2-Trichloroethane ND µg/L 2 2-Trichloroethane ND µg/L 2 2-Chloroethyl vinyl ether ND µg/L 2 2-Hexanone ND µg/L 2 2-Chloroethene ND µg/L 2 2-Chloroethene ND µg/L 2 2-Ethyl benzene ND µg/L 2 2-Chloroethene ND µg/L 2 2-Ethyl benzene ND µg/L 2 2-Total xylenes	Parameter	<u>Result</u>	<u>Units</u>	Reporting <u>Limit</u>
## Stromomethane   ND			μg/L	5
Vinyl chloride		***	μg/L	5
Methylene chloride         ND         µg/L         5           Acetone         ND         µg/L         50           Carbon disulfide         ND         µg/L         2           1,1-Dichloroethene         ND         µg/L         2           1,1-Dichloroethane         ND         µg/L         2           trans-1,2-Dichloroethene         ND         µg/L         2           Chloroform         ND         µg/L         2           1,2-Dichloroethane         ND         µg/L         2           2-Butanone         ND         µg/L         10           1,1,1-Trichloroethane         ND         µg/L         2           Carbon tetrachloride         ND         µg/L         2           Vinyl acetate         ND         µg/L         2 <tr< td=""><td></td><td></td><td>μg/L</td><td></td></tr<>			μg/L	
Acetone				5
Carbon disulfide			μg/L	5
1,1-Dichloroethane 1,1-Dichloroptopane 1,1-Dichloroptopane 1,1-Dichloroptopane 1,1-Dichloroptopane 1,1-Dichloroptopane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroptopane 1,1-Dichl			μg/L	50
1,1-Dichloroethane		ND	μg/L	2
2-Butanone	1,1-Dichloroethene		μg/L	2
2-Butanone		- · · <del>-</del>		2
2-Butanone			μg/L	2
2-Butanone			μg/L	2
1,1,1-Trichloroethane ND µg/L 2 Carbon tetrachloride ND µg/L 2 Vinyl acetate ND µg/L 10 Bromodichloromethane ND µg/L 2 1,2-Dichloropropane ND µg/L 2 trans-1,3-Dichloropropene ND µg/L 2 Trichloroethene ND µg/L 2 Dibromochloromethane ND µg/L 2 Dibromochloromethane ND µg/L 2 1,1,2-Trichloroethane ND µg/L 2 Benzene ND µg/L 2 cis-1,3-Dichloropropene ND µg/L 2 2-Chloroethyl vinyl ether ND µg/L 2 2-Chloroethyl vinyl ether ND µg/L 10 Bromoform ND µg/L 10 Bromoform ND µg/L 2 4-Methyl-2-pentanone ND µg/L 10 2-Hexanone ND µg/L 10 1,1,2,2-Tetrachloroethane ND µg/L 10 1,1,2,2-Tetrachloroethane ND µg/L 2 Toluene ND µg/L 2 Chlorobenzene ND µg/L 2 Chlorobenzene ND µg/L 2 Ethyl benzene ND µg/L 2 Ethyl benzene ND µg/L 2 Styrene ND µg/L 2	1,2-Dichloroethane		μg/L	-2
Carbon tetrachloride         ND         µg/L         2           Vinyl acetate         ND         µg/L         10           Bromodichloromethane         ND         µg/L         2           1,2-Dichloropropane         ND         µg/L         2           trans-1,3-Dichloropropene         ND         µg/L         2           Trichloroethene         ND         µg/L         2           Dibromochloromethane         ND         µg/L         2           1,1,2-Trichloroethane         ND         µg/L         2           Benzene         ND         µg/L         2           cis-1,3-Dichloropropene         ND         µg/L         2           2-Chloroethyl vinyl ether         ND         µg/L         10           Bromoform         ND         µg/L         10           Bromoform         ND         µg/L         10           4-Methyl-2-pentanone         ND         µg/L         10           2-Hexanone         ND         µg/L         10           1,1,2,2-Tetrachloroethane         ND         µg/L         2           Toluene         ND         µg/L         2           Chlorobenzene         ND         µg/L				10
Vinyl acetate ND µg/L 10 Bromodichloromethane ND µg/L 2 1,2-Dichloropropane ND µg/L 2 trans-1,3-Dichloropropene ND µg/L 2 Dibromochloromethane ND µg/L 2 Dibromochloromethane ND µg/L 2 1,1,2-Trichloroethane ND µg/L 2 Benzene ND µg/L 2 cis-1,3-Dichloropropene ND µg/L 2 2-Chloroethyl vinyl ether ND µg/L 10 Bromoform ND µg/L 10 4-Methyl-2-pentanone ND µg/L 10 2-Hexanone ND µg/L 10 1,1,2,2-Tetrachloroethane ND µg/L 10 1,1,2,2-Tetrachloroethane ND µg/L 2 Toluene ND µg/L 2 Chlorobenzene ND µg/L 2 Ethyl benzene ND µg/L 2 Ethyl benzene ND µg/L 2 Styrene ND µg/L 2			μg/L	
Bromodichloromethane ND  1,2-Dichloropropane ND  1,2-Dichloropropene ND  1,2-Dichloropropene ND  1,3-Dichloropropene ND  1,3-Dichloropropene ND  1,1,2-Trichloroethane ND  1,1,2-Trichloroethane ND  1,1,2-Trichloropropene ND  1,2-Dichloropropene ND  1,3-Dichloropropene ND  1,4-Methyl-2-pentanone ND  1,1-2-pentanone ND  1,1-2-pentanone ND  1,1-2-Tetrachloroethane ND  1,1-2-Tetrachloroethane ND  1,1-2-Tetrachloroethane ND  1,1-2-Tetrachloroethane ND  1,1-2-Tetrachloroethane ND  1,2-Tetrachloroethane ND  1,3-Dichloropropene ND  1,4-Methyl-2-pentanone ND  1,4-M				2
1,2-Dichloropropane       ND       µg/L       2         trans-1,3-Dichloropropene       ND       µg/L       2         Trichloroethene       ND       µg/L       2         Dibromochloromethane       ND       µg/L       2         1,1,2-Trichloroethane       ND       µg/L       2         Benzene       ND       µg/L       2         cis-1,3-Dichloropropene       ND       µg/L       2         2-Chloroethyl vinyl ether       ND       µg/L       10         Bromoform       ND       µg/L       2         4-Methyl-2-pentanone       ND       µg/L       10         2-Hexanone       ND       µg/L       10         1,1,2,2-Tetrachloroethane       ND       µg/L       2         Tetrachloroethene       ND       µg/L       2         Toluene       ND       µg/L       2         Chlorobenzene       ND       µg/L       2         Ethyl benzene       ND       µg/L       2         Styrene       ND       µg/L       2		**=	μg/L	10
1,2-Dichloropropane		· · · =	μg/L	2
trans-1,3-Dichloropropene       ND       μg/L       2         Trichloroethene       ND       μg/L       2         Dibromochloromethane       ND       μg/L       2         1,1,2-Trichloroethane       ND       μg/L       2         Benzene       ND       μg/L       2         cis-1,3-Dichloropropene       ND       μg/L       2         2-Chloroethyl vinyl ether       ND       μg/L       10         Bromoform       ND       μg/L       2         4-Methyl-2-pentanone       ND       μg/L       10         2-Hexanone       ND       μg/L       10         1,1,2,2-Tetrachloroethane       ND       μg/L       2         Toluene       ND       μg/L       2         Chlorobenzene       ND       μg/L       2         Chlorobenzene       ND       μg/L       2         Ethyl benzene       ND       μg/L       2         Styrene       ND       μg/L       2	1,2-Dichloropropane	ND		2
cis-1,3-Dichloropropene       ND       µg/L       2         2-Chloroethyl vinyl ether       ND       µg/L       10         Bromoform       ND       µg/L       2         4-Methyl-2-pentanone       ND       µg/L       10         2-Hexanone       ND       µg/L       10         1,1,2,2-Tetrachloroethane       ND       µg/L       2         Tetrachloroethene       ND       µg/L       2         Toluene       ND       µg/L       2         Chlorobenzene       ND       µg/L       2         Ethyl benzene       ND       µg/L       2         Styrene       ND       µg/L       2	trans-1,3-Dichloropropene	=	μg/L	2
cis-1,3-Dichloropropene       ND       µg/L       2         2-Chloroethyl vinyl ether       ND       µg/L       10         Bromoform       ND       µg/L       2         4-Methyl-2-pentanone       ND       µg/L       10         2-Hexanone       ND       µg/L       10         1,1,2,2-Tetrachloroethane       ND       µg/L       2         Tetrachloroethene       ND       µg/L       2         Toluene       ND       µg/L       2         Chlorobenzene       ND       µg/L       2         Ethyl benzene       ND       µg/L       2         Styrene       ND       µg/L       2			μg/L	2
cis-1,3-Dichloropropene       ND       µg/L       2         2-Chloroethyl vinyl ether       ND       µg/L       10         Bromoform       ND       µg/L       2         4-Methyl-2-pentanone       ND       µg/L       10         2-Hexanone       ND       µg/L       10         1,1,2,2-Tetrachloroethane       ND       µg/L       2         Tetrachloroethene       ND       µg/L       2         Toluene       ND       µg/L       2         Chlorobenzene       ND       µg/L       2         Ethyl benzene       ND       µg/L       2         Styrene       ND       µg/L       2		ND	μg/L	2
cis-1,3-Dichloropropene       ND       µg/L       2         2-Chloroethyl vinyl ether       ND       µg/L       10         Bromoform       ND       µg/L       2         4-Methyl-2-pentanone       ND       µg/L       10         2-Hexanone       ND       µg/L       10         1,1,2,2-Tetrachloroethane       ND       µg/L       2         Tetrachloroethene       ND       µg/L       2         Toluene       ND       µg/L       2         Chlorobenzene       ND       µg/L       2         Ethyl benzene       ND       µg/L       2         Styrene       ND       µg/L       2		ND	μg/L	2
2-Chloroethyl vinyl ether       ND       μg/L       10         Bromoform       ND       μg/L       2         4-Methyl-2-pentanone       ND       μg/L       10         2-Hexanone       ND       μg/L       10         1,1,2,2-Tetrachloroethane       ND       μg/L       2         Tetrachloroethene       ND       μg/L       2         Toluene       ND       μg/L       2         Chlorobenzene       ND       μg/L       2         Ethyl benzene       ND       μg/L       2         Styrene       ND       μg/L       2		ND	μg/L	2
2-Chloroethyl vinyl ether       ND       μg/L       10         Bromoform       ND       μg/L       2         4-Methyl-2-pentanone       ND       μg/L       10         2-Hexanone       ND       μg/L       10         1,1,2,2-Tetrachloroethane       ND       μg/L       2         Tetrachloroethene       ND       μg/L       2         Toluene       ND       μg/L       2         Chlorobenzene       ND       μg/L       2         Ethyl benzene       ND       μg/L       2         Styrene       ND       μg/L       2	cis-1,3-Dichloropropene	ND `	μg/L	
Bromoform         ND         μg/L         2           4-Methyl-2-pentanone         ND         μg/L         10           2-Hexanone         ND         μg/L         10           1,1,2,2-Tetrachloroethane         ND         μg/L         2           Tetrachloroethene         ND         μg/L         2           Toluene         ND         μg/L         2           Chlorobenzene         ND         μg/L         2           Ethyl benzene         ND         μg/L         2           Styrene         ND         μg/L         2	2-Chloroethyl vinyl ether	ND	μg/L	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		ND		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		ND	μg/L	10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		ND		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		ND		
Toluene ND $\mu g/L$ 2 Chlorobenzene ND $\mu g/L$ 2 Ethyl benzene ND $\mu g/L$ 2 Styrene ND $\mu g/L$ 2		ND		2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		ND T	• • .	. 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Chlorobenzene	ND		
Styrene ND µg/L 2		ND	· • .	2
	Styrene		· • .	2
	Total xylenes	· · <del>-</del>	• • .	2

Approved by

# EPA Method 624/HSL List

Client Name:	ERT					
Client ID:	47205 VC-11	-				
Laboratory ID:	5190-04					_
Matrix:	Water	Sampled:	09/01/87	Received:	09/01/87	-
Authorized:	09/01/87	Prenared.	09/15/87	Analyzada		

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	Reporting <u>Limit</u>
Chloromethane	ND	μg/L	5
Bromomethane	ND	μg/L	
Vinyl chloride	ND	μg/L	5 5
Chloroethane	ND	μg/L	5 5
Methylene chloride	ND	μg/L	. 5
Acetone	ND ND	μg/L	50 50
Carbon disulfide	ND	μg/L	
1,1-Dichloroethene	ND	μg/L	2 2
1,1-Dichloroethane	ND	μg/L	2
trans-1,2-Dichloroethene	ND	µg/L	2 2
Chloroform	16	μg/L	2
1,2-Dichloroethane	ND	μg/L	2
2-Butanone	ND	μg/L	10
1,1,1-Trichloroethane	ND	μg/L	
Carbon tetrachloride	ND ND	μg/L	2 2
Vinyl acetate	ND "	μg/L	10
Bromodichloromethane	4.8	µg/L	2
1,2-Dichloropropane	ND	μg/L	2
trans-1,3-Dichloropropene	ND	μg/L	
Trichloroethene	ND	μg/L	2 2
Dibromochloromethane	ND	μg/L	2
1,1,2-Trichloroethane	ND	μg/L	
Benzene	ND	μg/L μg/L	2 2
cis-1,3-Dichloropropene	ND	μg/L	2
2-Chloroethyl vinyl ether	ND	μg/L	10
Bromoform	ND	μg/L	
4-Methy1-2-pentanone	ND ·	μg/L	2
2-Hexanone	ND	μg/L	10
1,1,2,2-Tetrachloroethane	ND	μg/L μg/L	10
Tetrachloroethene	ND	μg/L μg/L	2
Toluene	ND	μg/L	. 2
Chlorobenzene	ND	μg/L	2 2
Ethyl benzene	ND	μg/L	2
Styrene	ND	μg/L μg/L	2 2
Total xylenes	ND ·	μg/L	2
	110	hā, r	2

ND = Not detected.

Reported by

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#### VOLATILE ORGANICS

#### Surrogate Recovery Summary

Client Name: ERT

Matrix: Water

Authorized: 09/01/87 Received: 09/01/87

				Surrogate Compound		
Lab ID	Client ID		d1,2,-Dichloro- ethane	d <sub>e</sub> -Toluene	p-Bromofluoro- benzene	
5190-01	VC-12	47202	`\	91	103	99 ~
5190-02	FB	47203		95	100	103 —
5190-03	SB	47204		91	100	103 —
5190-04	VC-11	47205		103	91	105 —

QC Advisory Limits:

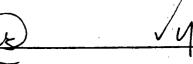
76-114%

61-110%

74-115%

Reported by

Approved by



#### PRIORITY POLLUTANT VOLATILE ORGANICS

#### EPA Method 624 + 624/HSL List

#### QUALITY CONTROL

Client Name: <u>ERT</u>

Client ID: <u>Laboratory Control Spike</u>

Laboratory ID: 1141LCS

Matrix: Water

Prepared: 09/14/87 Analyzed: 09/14/87

<u>Parameter</u>	% Recovery	QC Advisory Limits
1,1-Dichloroethene	74	61 - 145%
Trichloroethene	86	71 - 120%
Benzene	89	76 - 127%
Toluene	86	76 - 125%
Chlorobenzene	90	75 - 130%

Reported by

Approved by

# PRIORITY POLLUTANT VOLATILE ORGANICS

# EPA Method 624 + 624/HSL List

#### QUALITY CONTROL

Client Name: <u>ERT</u>		
Client ID: Laboratory Contro	ol Spike Dup.	
Laboratory ID: 1153LCSD		-
Matrix: <u>Water</u>	Prepared: <u>09/14/87</u>	Analyzed: 09/14/87
<u>Parameter</u>	% Recovery	QC Advisory Limits
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	92 105 98 98 103	61 - 145% 71 - 120% 76 - 127% 76 - 125% 75 - 130%

Reported by (

### EPA Method 624/HSL List

Client Name:	ERT					
Client ID:	Lab Procedural Blan	k - Water				
Laboratory ID:	1140					
Matrix:	Water	Sampled:	_NA	Received:	NA	
Authorized:	NA .	Prepared:	09/14/87	Analyzed:	09/14/87	

Parameter	Result	<u>Units</u>	Reporting <u>Limit</u>
Chloromethane	ND	μg/L	5
Bromomethane	ND	μg/L	5
Vinyl chloride	ND	μg/L	5
Chloroethane	ND	μg/L	5
Methylene chloride	ND	μg/L	5
Acetone	ND .	μg/L	50
Carbon disulfide	ND	μg/L	2
1,1-Dichloroethene	ND	μg/L	
1,1-Dichloroethane	ND	μg/L	。 2 2 2 2
trans-1,2-Dichloroethene	ND	μg/L	2
Chloroform	ND	μg/L	2
1,2-Dichloroethane	ND	μg/L	2
2-Butanone	ND	μg/L	10
1,1,1-Trichloroethane	ND	ug/L	2
Carbon tetrachloride	ND	μg/L	. 2
Vinyl acetate	ND	μg/L	10
Bromodichloromethane	ND	μg/L	
1,2-Dichloropropane	ND	μg/L	2 2 2 2 2 2 2 2
trans-1,3-Dichloropropene	ND ·	μg/L	2
Trichloroethene	ND	μg/L	2 .
Dibromochloromethane	ND	μg/L	. 2
1,1,2-Trichloroethane	ND	μg/L	2
Benzene	ND	µg/L	2
cis-1,3-Dichloropropene	ND	μg/L	2
2-Chloroethyl vinyl ether	ND	μg/L	10
Bromoform	ND	μg/L	2
4-Methyl-2-pentanone	ND	μg/L	. 10
2-Hexanone	ND	μg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	
Tetrachloroethene	ND	μg/L	2
Toluene	ND	μg/L	2
Chlorobenzene	ND	µg/L	2
Ethyl benzene	ND	μg/L	2
Styrene	ND	μg/L	2
Total xylenes	ND ·	μg/L	2 2 2 2 2 2 2 2
NA = Not applicable.			

NA = Not applicable.

ND = Not detected.

Reported by \_\_\_\_\_

Approved by

Vy

# EPA Method 624/HSL List

Client Name: <u>ERT</u>				
Client ID: Lab Froced	ural Blank - Water			
Laboratory ID: 1152				
Matrix: Water	Sampled:	: NA	Received:	NA
' Authorized: <u>NA</u>	Prepared	09/14/87	Analyzed:	09/14/87
<u>Parameter</u>	<u>Result</u>	Units		Reporting <u>Limit</u>
Chloromethane Bromomethane Vinyl chloride Chloroethane Methylene chloride	ND ND ND ND ND	μg/L μg/L μg/L μg/L μg/L		5 5 5 5 5
Acetone Carbon disulfide 1,1-Dichloroethene 1,1-Dichloroethane trans-1,2-Dichloroethene	ND ND ND ND ND	µg/L µg/L µg/L µg/L µg/L		50 2 2 2 2 2
Chloroform 1,2-Dichloroethane 2-Butanone 1,1,1-Trichloroethane Carbon tetrachloride	ND ND ND ND	µg/L µg/L µg/L µg/L		2 2 10 2
Vinyl acetate Bromodichloromethane 1,2-Dichloropropane trans-1,3-Dichloropropene	ND ND ND ND ND	µg/L µg/L µg/L µg/L µg/L		2 10 2 2 2
Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Benzene cis-1,3-Dichloropropene	ND ND ND ND	μg/L μg/L μg/L μg/L		2 2 2 2
2-Chloroethyl vinyl ether Bromoform 4-Methyl-2-pentanone 2-Hexanone	ND ND ND ND ND	μg/L μg/L μg/L μg/L μg/L		2 10 2 10 10
1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene Chlorobenzene	ND ND ND ND	μg/L μg/L μg/L μg/L		2 2 2 2 2 2 2 2
Ethyl benzene Styrene Total xylenes	ND ND ND	μg/L μg/L μg/L	·	2 2 2 2
NA = Not applicable. ND = Not detected.			·	10
Reported by OB	Appr	oved by (NE	)	14

#### CHAIN-OF-CUSTODY RECORDS

UNIFIRST

WOBURN, MA

### CHAIN OF CUSTODY RECORD

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# CHAIN OF CUSTODY RECORD

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### SAMPLE RECEIPT CHECK LIST

<i>A</i> atrix	Container	ERT #(s)		
WATER	3 ver viali	47202-47205		
· .				
	s shipped or hand-delivered?			
Notes:	in the contract of any	maloc?	Yes	No
	ord present upon receipt of sai	riplest	٧	u
Notes:  . Was COC tap	Yes □	No D		
Notes:		•	_	
	s received ambient or chilled?	<u>.</u> #		
Notes:			· Vaa	Na
. Were any sar	nples received broken/leaking	(improperly sealed?	Yes	No
Notes:			Yes	No
8. Were sample	s properly preserved?	•		
Notes:			Yes	No
•	pes present/unbroken on sam	ples?		W.
Notes:	naine hetuvoon eamale laheis a	nd COC remids?	Yes	No
8. Any discrepa Notes:	ncies between sample labels a			ی
•	s received within holding time	s?	Yes	_ N <sub>0</sub>
Notes:				_
Additional Com				
10	78			